

## **ABSTRACT**

The present invention regards a variety of methods and compositions for whole genome amplification. In a particular aspect of the present invention, there is a method of amplifying a genome in a non-biased manner utilizing adaptor-attached randomly generated fragments following modification of the DNA ends prior to the adaptor attachment. In an additional aspect of the present invention, there are methods and compositions for whole genome amplification regarding a one-step endonuclease cleavage and linker ligation reaction.